

## CLAIMS

1. A gauge for use in a surgical procedure to determine a first angle in a first plane and a second angle in a second plane, said gauge including:
  - a body; and
- 5       a plumb bob mounted to said body so as to hang under the influence of a local gravitational field, said plumb bob being rotatable relative to said body in both said first plane and said second plane so as to determine said first angle and said second angle respectively.
2. A gauge according to claim 1 wherein a universal joint rotatably mounts said plumb
- 10   bob to said body.
3. A gauge according to claim 2 wherein said universal joint is any one of:
  - a ball joint;
  - a singular pivot-point joint;
  - an eye end joint;
  - 15   a tie rod end joint; or
  - a rose joint.
4. A gauge according to any one of the preceding claims in which said first plane is orthogonal to said second plane.
5. A gauge according to any one of the preceding claims wherein said plumb bob
- 20   includes a pointer.

6. A gauge according to claim 5 wherein said body includes markings disposed adjacent said pointer.
7. A gauge according to claim 6 wherein a first sub-set of said markings corresponds to angular increments of said first angle and a second sub-set of said markings
- 5 corresponds to angular increments of said second angle.
8. A gauge according to any one of the preceding claims further including a connector disposed on said body for connection of said gauge to a prosthetic component.
9. A gauge according to any one of the preceding claims further including a connector disposed on said body for connection of said gauge to a predefined site of a patient.
- 10 10. A gauge according to any one of the preceding claims wherein said surgical procedure is the insertion of an acetabular cup into a reamed acetabulum during hip replacement surgery.
11. A gauge according to claim 10 wherein said first angle corresponds to an aversion of said acetabular cup relative to the reamed acetabulum.
- 15 12. A gauge according to claim 10 or 11 wherein said second angle corresponds to an abduction of said acetabular cup relative to the reamed acetabulum.
13. A gauge according to any one of the preceding claims wherein movement of the plumb bob relative to the body is damped.
14. A gauge for use in a surgical procedure to determine a first angle in a first plane
- 20 and a second angle in a second plane, said gauge including:
- a body;

a first plumb bob mounted to said body so as to hang under the influence of a local gravitational field, said first plumb bob being rotatable relative to said body in said first plane so as to determine said first angle; and

a second plumb bob mounted to said body so as to hang under the influence of a  
5 local gravitational field, said second plumb bob being rotatable relative to said body in said second plane so as to determine said second angle.

15. A gauge according to claim 14 wherein said first plumb bob is mounted to said body for rotation about a first axis and the second plumb bob is mounted to said body for rotation about a second axis, whereby said first axis is orthogonal to said second  
10 axis.